DETECTION AND QUANTITATIVE ANALYSIS OF POLYSACCHARIDES IN RAW MATERIALS *SPATHIPHHYLLUM FLORIBUNDUM*

Skrebtsova K.S., Semaan Ali, Popova N.V.
National University of Pharmacy, Kharkiv, Ukraine

Introduction. Spathiphyllum is a genus of perennial evergreen plants of the family *Araceae*. The genus *Spathiphyllum* has about 45 species and many bred varieties of this plant. *Spathiphyllum floribundum Linden* - up to 60 cm tall. It has oval, slightly elongated rough leaves up to 20 cm long and up to 10 cm wide. The cover of the inflorescence is white. It blooms abundantly and for a long time. The species comes from Colombia [3].

The height of the bush is about half a meter. The shape of the leaves is oval-lanceolate, its width is about 12 centimeters, and its length is up to 25 cm. The head is covered with a white covering.

The sap of plants of the genus *Spathiphyllum* is toxic, as well as in other members of the genus. The raw material contains calcium oxalate crystals that can irritate the mucous membrane.

Indoor plants that absorb dangerous and poisonous substances, reduce the number of microbes, and also moisturize the air, protecting people from seasonal diseases (SARS, flu, etc.) will help provide fresh air [2, 3].

Materials and methods. We selected leaves of *Spathiphyllum floribundum* for phytochemical studies harvested in the Kharkiv region in 2021. Detection of polysaccharides in *Spathiphyllum* leaves was carried out using a chemical reaction, using an aqueous extract from the studied raw material. As a result, a reaction was carried out with 96% ethanol. Determination of the quantitative content of polysaccharides was carried out by the gravimetric method in accordance with the requirements of the SPU, the article "Althaea roots" [1].

Results and their discussion. According to the results of the identification reaction, polysaccharides were found in leaf of *Spathiphyllum floribundum*. When determining the quantitative content of this class of BAC, the results were statistically processed in accordance with the requirements of the SPU and are 7,56 ± 0.19%.

The obtained results are one of the stages of a complex phytochemical study of Spathiphyllum floribundum. leaf**.**

References:

1. Державна Фармакопея України / Державне підприємство «Український науковий фармакопейний центр якості лікарських засобів». 2-е вид. Харків: Державне підприємство «Український науковий фармакопейний центр якості лікарських засобів», 2014. Т. 3. 732 с.
2. Britannica, The Editors of Encyclopaedia. "azalea". Encyclopedia Britannica, 25 Jan. 2023, https://www.britannica.com/plant/azalea. Accessed 1 March 2023.
3. Effects of different light-emitting diode qualities on the growth and photosynthetic characteristics of *Spathiphyllum floribundum* / Yinglong Song, Wenqian Shang, Zheng Wang et al. *Canadian J. of Plant Science*. 2022. Vol. 102, N 4. P. 911-925.